Fizikai állandók

SYMBOL	Name of the CONSTANT	SI [unit]	cgs [unit]
c	Speed of Light (in vacuum)	2.99792458×10^8 [m/s]	
G	Gravitational constant	6.67259×10^{-11} [Nm^2/kg^2]	
g	Gravitational acceleration	9.80665 [m/s^2]	
m	Magnetic moment	1 [Vsm] = 1 [Tm^3]	$= (4\pi)^{-1} \times 10^{10}$ [emu]
m_e	Electron mass	$9.1093879 \times 10^{-31}$ [kg]	
m_p	Proton mass	$1.6726231 \times 10^{-27}$ [kg]	
m_n	Neutron mass	$1.6749286 \times 10^{-27}$ [kg]	
u	Atomic mass unit	$1.6605402 \times 10^{-27}$ [kg]	
e	Electron charge	$1.60217733 \times 10^{-19}$ [C]	
h	Planck constant	$6.6260755 \times 10^{-34}$ [Js]	
k	Boltzmann constant	1.380658×10^{-23} [J/K]	
μ_0	Magnetic permeability	$1.256637061 \times 10^{-6}$ [H/m]	
ε_0	Dielectric permittivity	$8.854187817 \times 10^{-12}$ [F/m]	
r_e	Classical electron radius	$2.81794092 \times 10^{-15}$ [m]	
α	Fine structure constant	$7.29735308 \times 10^{-3}$ [-]	
a_0	Bohr radius	$5.29177249 \times 10^{-11}$ [m]	
R	Rydberg constant	1.097373153×10^7 [1/m]	
ϕ_0	Fluxoid quantum	$2.06783461 \times 10^{-15}$ [Wb]	
μ_B	Bohr magneton	$9.2740154 \times 10^{-24}$ [J/T]	
μ_e	Electron magnetic moment	$9.2847701 \times 10^{-24}$ [J/T]	
μ_N	Nuclear magneton	$5.0507866 \times 10^{-27}$ [J/T]	
μ_p	Proton magnetic moment	$1.41060761 \times 10^{-26}$ [J/T]	
μ_n	Neutron magnetic moment	$9.6623707 \times 10^{-27}$ [J/T]	
λ_c	Compton wavelength (electron)	$2.42631058 \times 10^{-12}$ [m]	
λ_{cp}	Compton wavelength (proton)	$1.32141002 \times 10^{-15}$ [m]	
σ	Stefan-Boltzmann constant	5.67051×10^{-8} [W/m^{2}K^4]	

N_A	Avogadro's constant	6.0221367×10^{23} [1/mol]	
V_m	Ideal gas volume at STP	2.24141×10^{-2} [m^3/mol]	
R	Universal gas constant	8.31451 [J/(mol K)]	
F	Faraday constant	9.6485309×10^{4} [C/mol]	
R_H	Quantum Hall resistance	2.58128056×10^{4} [Ohm]	